From The Prez

January Meeting Change - On Zoom ONLY

Due to the recent increase in the COVID virus, we feel the prudent thing to do is to hold the January meeting on Zoom only. Originally, we planned to have the meeting at Busch with a Zoom option. After talking with a fair number of members, many are concerned about physical contact in large groups and were considering not attending the meeting in person. To make that decision easier, and for the safety of the group, we will be cancelling the January meeting at Busch and be on Zoom only. The credentials appear down the page and on the CARS website.

Silent Keys

2021 ended on a sad note for the CARS family, two active and well-liked members became Silent Keys at the tail end of the year. Coincidentally, Larry Shirmirka, N8OWS, and Jim Bis, N8FND, both passed away on December 17th. It's not hard to see them both up there trying to make a dipole out of harp strings.

Anyone who met Jim would have a hard time forgetting the big guy. He was no wallflower. Jim was outgoing, opinionated, and a big smile or laugh always accompanied his speaking. His experiences gave him great material for stories, especially those from his Air Force service. In the service, he learned quite a bit about radios and was always willing to share his knowledge.

Larry did so many things for CARS over the years, I'm sure I won't be able to recall them all here. He was a net controller, and an excellent one at that. Some said he was one of the best we ever had. He ran the nets with his own style, and it worked great. Larry was the club photographer for quite some time. He also picked up the ball as secretary when Dwaine, K8ME, became s Silent Key, and did a whale of a job in that difficult and all too often thankless position. Larry was a ham's ham, participating in manty clubs, public service events, and numerous other activities.

We will all miss Larry and Jim immensely, and sincerely convey our condolences to their families. But as we begin another new year, let's honor Larry and Jim and carry their legacies as part of the CARS saga.
We can remember them for what they did - not only with amateur radio, but in life in general. We can be glad we knew them and remember them for the joy they each brought into our lives. When you think about it, that's a great way to be thought of.

New Net Controller

Once again, we are extending an invitation to any CARS member who would like to try their hand (and voice) at becoming a Net Control Station for the Wednesday evening club nets. We will give anyone who tries plenty of support. We have an excellent track record, in that every station that has become a NCS
has done well and stuck with it for a good long while. If you try a net or two and feel uncomfortable, there's no harm in backing out. Please contact me if you are interested and we'll get you started.

73, Toby, WT8O

Next CARS Meeting

Tuesday, January 11 - 7:30 PM

Ron Hollas, K8RJH

Preparing for Public Service

On Zoom ONLY

Meeting ID: 820 1098 4949
Passcode: 045592

Metro, W8MET, sent in this picture of a fallen tree in his yard the high winds blew over.

CARS Repeaters

146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

Allstar Node 47067

EchoLink Node 343470 (K8ZFR-R)

****

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

****

444.75 (+) PL Tone 131.8
Analog Repeater - Shaker Hts.
Not Linked to Other Repeaters

Improve your 2022 Amateur Radio Skills with the ARRL Learning Center
Ron Hollas, K8RJH

January is a great time of the year to reflect on how we have used our Amateur Radio privileges over the past few months and what we can individually do to expand our Ham skills into the next year.

For assisting the Amateur who is looking for that “next step” in developing their Amateur Skills for 2022, please consider my checklist on the top 3 practical Ham activities for this year.

1. **Join and participate in a radio club committee**
2. **Join the ARRL, Check out the On-Line Training Courses**
3. **Subscribe to Amateur Radio mailing lists, blogs, and podcasts**

These “Top 3” were previously listed in my checklist of 21 practical Ham activities presented in the January 2021 edition of the Wobbly Oscillator.

This year, these items could not have been made easier achieve through using (or by joining if you are not a member) your ARRL web login and access the new ARRL Learning Center. At the time of this writing, this Amateur information and training resource includes over major 20 topics for On-Line Training. They include Ham Community and Webinar links that easily help you successfully complete “next step” goals and will enhance your Amateur Radio experience.

The On-Line ARRL learning center is accessed at https://learn.arrl.com .

Also, the Learning Center's extensive course offerings help you increase your knowledge, skills, and ability to enjoy amateur radio at your pace and level. The courses are grouped into three learning paths, “Electronics & Technologies”, “Emergency Communications” and “On the Air” categories.

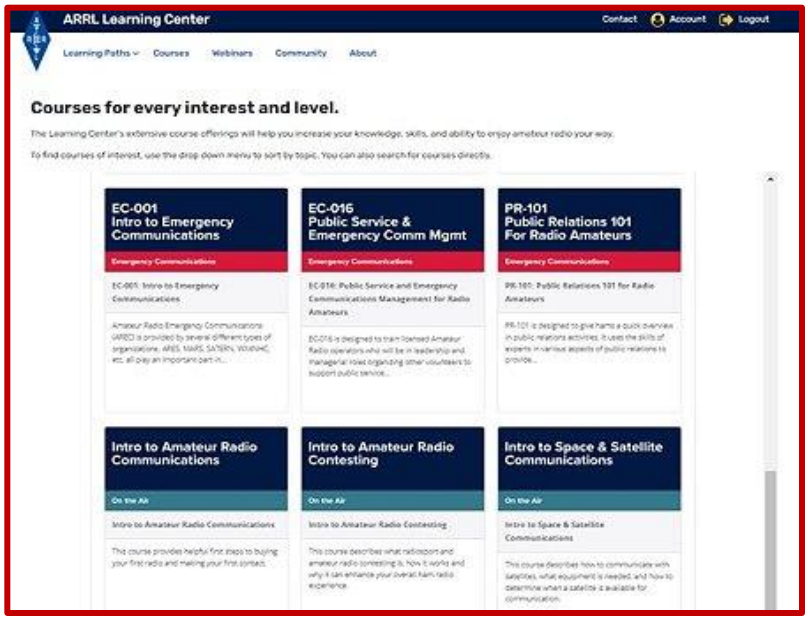
As you explore the topics, resources and complete courses of interest to you, one will find it an incredible benefit of ARRL membership.

Not An ARRL Member? One can register as a Guest Account into the ARRL Learning Center for a trial period. This is a great option for anyone to review and explore the material.

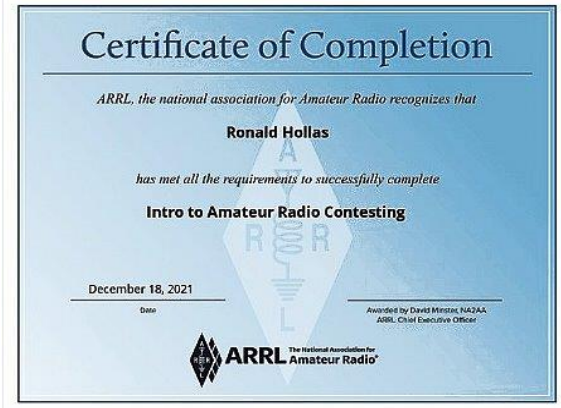
Your personal interest may be different. If you are serious in using this training, or simply interested in checking out these ARRL Learning Resources then you are on to a good start for this year in growing our Amateur Radio Service.

And, if you were wondering what my favorite goal for both last year and 2022, it still is; **21.**

…HAVE FUN!


ARRL Learning Center
Contact
Account
Logout
Learning Paths
Courses
Webinars
Community
About
Courses for every interest and level.
The Learning Center's extensive course offerings will help you increase your knowledge, skills, and ability to enjoy amateur radio your way.
To find courses of interest, use the drop down menu to sort by topic. You can also search for courses directly.
EC-001
Intro to Emergency Communications
EC-016
Public Service & Emergency Comm Mgmt
PR-101
Public Relations 101 For Radio Amateurs
Intro to Amateur Radio Communications
Intro to Amateur Radio Contesting
Intro to Space & Satellite Communications

Course Listing Page from the new ARRL Learning Center. These 30+ Courses are viewable on computer, tablet or smartphone with an internet connection. The course presentations, videos and assessments are supported by printable charts, infographics and links for further reading.


Certificate of Completion
ARRL, the national association for Amateur Radio recognizes that
Ronald Hollas
has met all the requirements to successfully complete
Intro to Amateur Radio Contesting
December 18, 2021
Date
Awarded by David Minster, NA2AA
ARRL Chief Executive Officer
ARRL The National Association for Amateur Radio

A printable Certificate of Completion is available for the courses requiring knowledge assessments. This makes a great addition to any ham shack wall.

January Net Sked

JAN	5	WT8O
JAN	12	K8RJH
JAN	19	KD8ACO
JAN	26	AC8NW

Nets are run every Wednesday at 9:00 PM on:

146.820 (PL 110.9)

443.825(+) PL Tone 131.8
Digital Yaesu Fusion
Linked to the 146.82 Repeater

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

A More Unusual Use of Radio

Andy, KD8SCV

Within the realm of WWII history, there's an oft-repeated statement that radar and the atomic bomb or even keeping the D-Day landing secret were the game changers of that conflict. Of course, those events are significant, and no one is suggesting otherwise. But there is another development from that global conflict for which a strong case could be made that it belongs on that list too, perhaps even at the top. And, it's a device that needed radio to work.

The device in question is the proximity fuze that was developed in the U.S. during WWII for use in naval anti-aircraft guns and later adapted for anti-personnel use by the U.S. Army's artillery.

The mechanics sound simple: a transceiver, firing circuit, and a power source. But consider this, the circuits used vacuum tubes and the entire assembly had to fit in the nose of a 5.5 inch shell – no mean feat. Next, fuze components had to survive an initial launch stress of 20,000 g-forces, the rotational spin of 24,000 rpm induced by the gun's rifling, and not detonate prematurely.

How did it work? Firing the shell energized the battery, turning the transceiver on to begin transmitting a signal. (The shell's nose actually served as a dipole antenna.) When the signal was reflected back by an object nearing the shell's flight path, say an enemy plane within around 70 feet for example, the receiving circuit energized the firing circuit, detonating the shell and damaging or destroying the plane.

Even more devastating was the fuze's use by U.S. Army artillery and howitzers. When fired at enemy positions, particularly where their troops were amassed in the open, the proximity fuze-equipped shells would detonate overhead from a height of perhaps 30 to 70 ft, raining down lethal high-velocity fragments which shredded anyone and anything on the ground.

But beyond the fuze's use is the story of its development, essentially the world's first "smart" weapon. By necessity, work on creating and producing it were shrouded in secrecy. Mind you, there were many setbacks and disappointments on the way to success, but the sheer persistence and collaboration of so many scientists, (a few of whom were also amateur radio "hams" such as Dr. Allen Hynek), engineers, manufacturers, workers, and military personnel is a fascinating story, even nearly 80 years later.

Here are the titles of two books I read which tell the story of the proximity fuze.

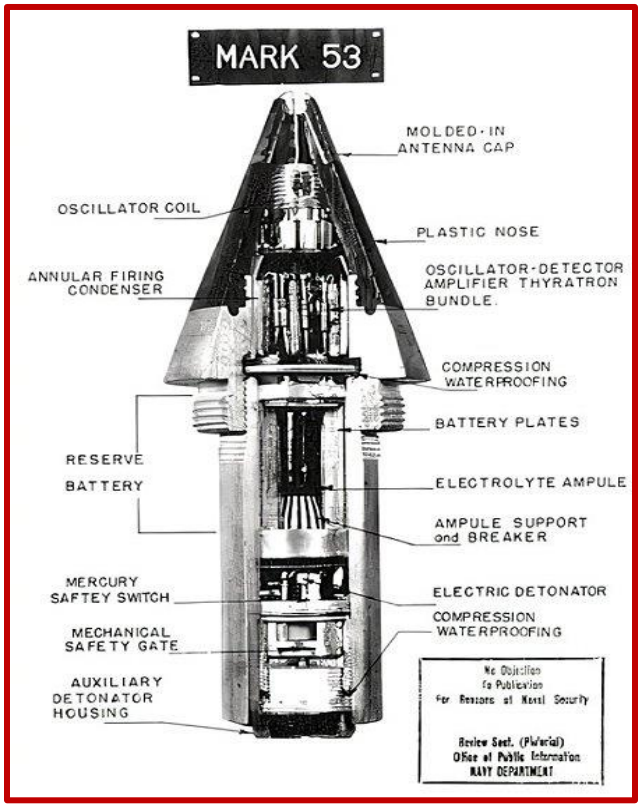
“The Deadly Fuze” by Ralph B. Baldwin

Author Baldwin was on the fuze’s development team and wrote a superb first-hand account. Note: He couldn’t publish his book until the late 1970s, after the last layers of secrecy were removed from the fuze’s creation. Unfortunately, Baldwin’s book is hard to find, apparently enjoying only one print run when released in 1980. Some used book dealers list it for a few hundred dollars. However, the Cleveland Public Library does have a copy for lending. Their copy is the one I read.

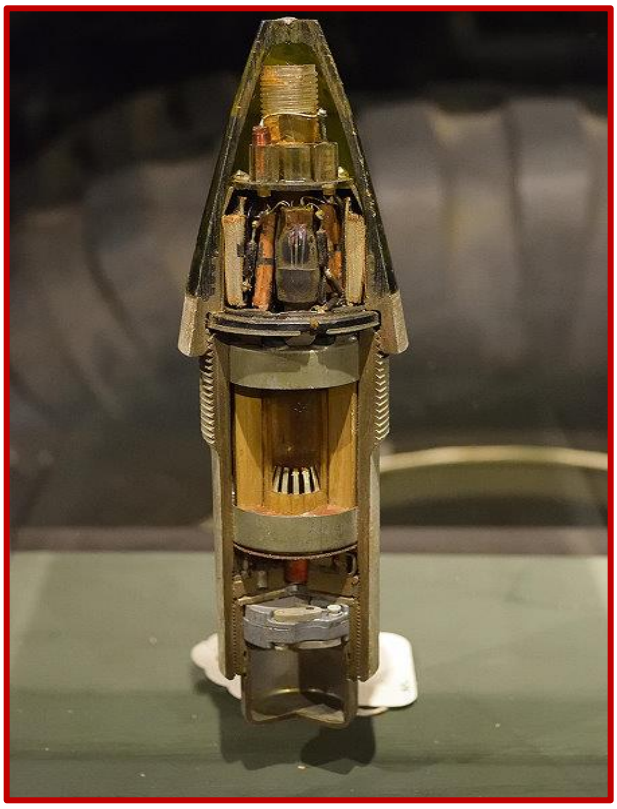
“Twelve Seconds of Silence” by Jamie Holmes

Author Holmes’ book is a recent (2020) publication on the fuze and he weaves the fuze’s development in with several significant events of the conflict. Holmes’ book is readily available online and from Cuyahoga County’s public library system.

Engage Veterans | The Deadly Fuze | PBS (https://www.pbs.org/video/we-are-veterans-deadly-fuze/)
The preceding are web-links to two PBS stations serving Grand Rapids and Kalamazoo, Michigan, which have been running programs dedicated to U.S. veterans. The program runs about an hour.



Schematic showing details of Mark 53 proximity fuze.



Cutaway of an actual proximity fuze

CARS Licensing Classes

CARS will once again offer Amateur Radio Licensing classes in 2022. There will be classes for Technician, General, and Amateur Extra. Keep in mind, the General class will be given to any CARS member at no charge. The well-seasoned team of instructors will remain in place with David, KD8ACO, teaching the Technician class; Toby, WT8O, teaching the General class; and Joel, K8SHB, teaching the Extra class.

All classes will be held at the Seven Hills Community Room every Thursday at 6:30 PM. Sign-up and orientation will be on Thursday, February 24th continuing through Thursday, April 7th when a VE Exam Session will be held for all classes.

See the CARS website, www2cars.org, for details and a map to the class location.

WT8O noticed on his recent vacation in Arizona, they decorate a little differently for Christmas.

VE Session

The next VE testing session will be held Sunday, January 9th, at **9:15 AM*** at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131. Directions and a map are on the CARS website homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

***Please note time change to 9:15 AM.**

For Sale

This equipment is only for a licensed ham and is pickup only at my QTH in Middleburg Hts. Any questions or to set an appointment to pick up, email me at K8DAV@wowway.com

I used the setup on the ham satellite only and at 5 watts.
Package $200 cash

The equipment available is:
See photos.
Other equipment is:

-1 Yaesu FT8800 with 12v external power supply. The 8800 is missing the plastic volume control knob but does work.

-1 External mobile mounting for the FT8800 control head with cable.

-2 Comet Duplexers CF-4160.

-1 Preamp 432 mhz. Advanced Receiver Research P432VDG. Never used but checks out fine on bench.

-1 External 12v Mirage power supply for preamp.

-1 4 element 2 M yagi antenna w/manual.

-1 11 element 70cm yagi w/manual.

-1 Bag of misc coax adapters.

2022 CARS Dues

Just a reminder, we are accepting your 2022 dues; they are due on or before January 31, 2022. Dues are $26.00 for members 59 years of age or younger, plus $16.00 per family member.
Dues for age 60 and over are $18.00 plus $16.00 per eligible family member.

Please mail dues and other correspondence to:
CARS
7395 Brecksville Rd.
Independence, OH 44131

Payments can also be made via PayPal
(PLEASE USE PERSONAL OPTION WHEN PAYING)
by sending to w8gc@2cars.org

You can also pay at any CARS meeting.

If you have already paid your 2022 dues "Thank You!" If you are not sure please send me an email.

73, Bob, W8GC, Treasurer CARS

The *Wobbly Oscillator* is a publication of the Cuyahoga Amateur Radio Society, P.O. Box 31264, Independence, Ohio, 44131-0264. Articles from this publication may be reprinted in any ham radio publication, provided that credit is given to this publication and the author, if known. All submissions should be emailed to: wt8o@att.net by the end of the month for publication in the next month's issue.

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC
Elected 2/10/15

Thomas Wayne, WB8N
Elected 1/10/17

Dwaine Modock, K8ME, SK
Elected 5/9/17

Toby Kolman, WT8O
Elected 10/10/17

Jerry Smith, NW9H
Elected 5/8/18

Ron Borkey, K8VJG, SK
Elected 5/14/19

Ed Stevens, WB8ROK, SK
Elected 8/10/21

"Dream as if you'll live forever, live as if you'll die today."

James Dean

CARS 2022 Officers & Committees

Audit
K8RJH ** WT8O, WJ8WM

Audio/Video
AC8NW **

ARRL Liaison
K8RJH **

Awards
W8GC ** WT8O

Christmas party & Summer Picnic
WJ8WM **, K8ARP, KD8FTU, KD8FTV

Field Day
K8RGI **, WT8O, K8ARP, KD8SCV, AC8NW, AC8TN, WT8O, K8RJH, N8BBB food

50/50
KD8SCV

Hamvention Bus
KD8FTS **

License classes
KD8ACO **, WT8O, K8SHB

Media Representative
KD8SCV

Membership
WT8O ** W8GC

NET
WT8O **

Newsletter
WT8O ** 440-525-6109
wt8o@att.net

Programs at Meetings
KD8BAL ** KD8FTS, KE8OZU

Property Custodian's
KB8DTC records, W8GC equipment

Public Services
KD8FTS **, K8ARP

QSL Manager - W8HBI, W8BM
WB8N **

Refreshments at Meetings & Picnic
K8RJH ** pop, NW8X ** Donuts, KE8RMV *** Coffee

Scholarship
W8GC ** K8RGI, KE8OZU, WT8O, K8RJH

Sunshine (welfare)
Andy, KD8SCV ** 440-886-0723

Technical
AC8NW ** N8OVW, WJ8WM, KD8ACO, K8RJH, KB8DTC

VE Exams
Metro, W8MET ** 216-520-1320

Web Master/e-mail
W8GC **

** chairman or co-chairman

2022 Officers

PRESIDENT
Toby Kolman WT8O 440-525-6109
wt8o@att.net

VICE-PRESIDENT
Ron Hollas, K8RJH, 216-379-7440

SECRETARY
Matt, KE8OZU, 216-337-1540
Alternate Secretary:

TREASURER:
Bob Check W8GC 216-524-1750
Alternate Treasurer: Bob Robbins, K8RGI

Board Members & License Trustees

Board Chairman:

even year executive board 2 year term
AC8NW, KB8DTC, WJ8WM

odd year executive board 2 year term
K8RGI, K8ARP, KD8FTS

License trustee
K8ZFR
WT8O

License trustee
W8HBI, W8BM,
W8GC

November 26, 2021

CUYAHOGA AMATEUR RADIO SOCIETY
CARS
"Hams Who Serve"